

23-3-2/8

TITLE: Investigation of the Dynamics of Kukersite-Oil Shale Heating with One-Sided Heat Supply (Izucheniye dinamiki nagreva slantsa-kukersita pri odnostoronnem podvode tepla)

The practical application of the results obtained is possible for the case of studying heat emission in an oil shale layer subjected to underground gasification.

The characteristics of the temperature field are considered for two thermal regimes: the unsettled and stationary regimes.

The article contains 8 graphs and 1 table, as well as 9 references, all Slavic.

ASSOCIATION: Institute of Chemistry of the Estonian Academy of Sciences.

PRESENTED BY:

SUBMITTED: On 2 April 1957

AVAILABLE: At the Library of Congress.

Card 2/2

GUBERGITS, M. Ya.; KUIV, K. A.; VOLL, M. A.

"Thermal properties of shale-kuckersite."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk,
4-12 May 1964.

Inst of Chemistry, AS ESSR

KUJACIC, Bogdan, Major dr.

Personal experiences with irgapyrine therapy. Voj. san. pregl.
Beogr. 13 no.11-12:569-572 Nov-Dec 56.

1. Ocna klinika VMA.

(AMINOPYRINE, ther. use

irgapyrine in eye dis., indic. (Ser))

(PHENYLBUTAZONE, ther. use

same)

(EYE DISEASES, ther.

irgapyrine, indic. (Ser))

KOPSA, Milan, sanitetski pukovnik prof. d-r.; KUJACIC, Bogdan, sanitetski potpukovnik, d-r

Report on our results of the treatment of ocular tuberculosis with the "Nedeljkovic filtrate." Voj.san.pregl., Beogr. 17 no.7/8:805-807 J1-Ag '60.

1. Vojnomedicinska Akademija u Beogradu, Klinika za ocne bolesti.
(TUBERCULOSIS OCULAR ther)

KUJACIC, JOVAN S.

Prilozi istoriji zdravstvene kulture Crne Gore do kraja 1918 godina.
Beograd, 1959. 137 p. (Srpska akademija nauka. Posebna izdanja, knj. 170)
CtY

MEDICINE

SO: Monthly list of East European Accessions (SEAI) 16

Vol. 8, No. 4
April 1959, Uncl.

KUJAL, Bohumir; KUJAL, Josef

Methods of optimum calculation of a buckling heavy water reactor
with $UC_2(UC)$ fuel and organic coolant. Jaderna energie 10 no.7:
255 J1'84

1. Institute of Nuclear Research, Czechoslovak Academy of
Sciences, Res.

KUJAL, Bohumír; KUJAL, Josef

Methods of optimum calculation of a buckling heavy water reactor
with $UO_2(UC)$ fuel and organic coolant. *Jednota energie* 10 no.7:
255 J1'64

1. Institute of Nuclear Research, Czechoslovak Academy of
Sciences, Res.

KUJALOVA, V.; FABRY, P.

Role of the adrenal cortex in adaptation of intestinal absorption.
Cesk. fysiол. 7 no.2:151-152 Mar 58.

1. Ustav pro vyzkum vyživы lidu, fysiologické oddelení, Praha.

(INTESTINES, physiology,

glucose absorp., eff. of adrenalectomy (Cz))

(GLUCOSE, metabolism,

intestinal absorp., eff. of adrenalectomy (Cz))

(ADRENALECTOMY, effects,

on intestinal glucose absorp. (Cz))

CZECHOSLOVAKIA/Human and Animal Physiology (Normal and
Pathological) Internal Secretion. Hypophysis.

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 26757

Author : Fabry, P., Kujalova, V., Mosinger, D.

Inst : -

Title : The Influence of Growth Hormone on Absorption of Glucose
in Intestines.

Orig Pub : Ceskosl. fysiол., 1958, 7, No 2, 153-154

Abstract : The influence of growth hormone (GH) on absorption of
glucose (I) in the intestines of intact rats (IR) and
rats adrenalectomized (AR) 6 days before the experiment
was investigated. In IR, in introduction of GH, there
were no changes in absorption of I. In AR, I absorption
is decreased; normalization took place in introduction
of 5 units of GH 24-4 hours before experiment. In rats
with alloxan diabetes, the introduction of GH did not
change I absorption. -- V.V. Yazvikov

Card 1/1

FABRY, P.; LOJDA Z.; KUJALOVA, Y.

Morphological aspects of intestinal adaptation to interrupted cooling.
Cesk. fysiол. 8 no.3:183-184 Apr 59.

1. Ustav pro vyzkum vyziwy lidu, fysiол. odd. Embryologicky ustav lek.
fak. KU, Praha. Predneseno na III. fysiologickych dnech v Brne dne 14. 1.
1959.

(INTESTINES, physiол.
eff. of hypothermia (Cz))

(HYPOTHERMIA, eff.
on intestines (Cz))

MOSINGER, B.; BRAUN, T.; WENKEOVA, J.; KUJALOVA, V.

Role of the liver and of the pancreas in hypoglycemic effect of oral antidiabetics (BZ 55 and D 860). Cesk. fysiол. 8 no.3:225 Apr 59,

1. Ústav pro výzkum výživy lidu, Praha. Předneseno na III. fysiologických dnech v Brně 14. L. 1959.

(ANTIDIABETICS, eff.

carbutamide & tolbutamide, hepatic & pancreatic factors in hypoglycemic activity (Cz))

(LIVER, physiол.

hypoglycemic mechanism after admin. of carbutamide & tolbutamide (Cz))

(ISLANDS OF LANGERHANS, physiол.
same)

KUJALOVA, V.; FABRY, P.

Effect of the intermittent food intake on the glucose absorption in rats after partial resection of the small intestine. Cesk. gastroent. vyz. 15 no.3:209-214 My '61.

1. Ustav pro vyzkum vyživ y lidu v Praze, reditel doc. MUDr. Josef Masek.
(GLUCOSE metab) (INTESTINE SMALL physiol)
(FOOD)

MOSINGER, B.; KUJALOVA, V.

Trigger effect of epinephrine on the free fatty acid release and/or content and lipolytic activity of rat adipose tissue. Rev. czech. med. 8 no.4:285-289 '62.

1. Institute of Human Nutrition, Prague; Director: Prof. J. Masek, D.Sc.

(EPINEPHRINE) (FATTY ACIDS) (ADIPOSE TISSUE)
(LIPASE)

MOSINGER, B.; BRAUN, T.; KUJALOVA, V.; WENKEOVA, J.

Fatty tissue metabolism and fat reserve mobilization. Cesk. gastroent.
vyz. 16 no.3/4:206-213 Ap '62.

1. Ustav pro vyzkum vyzivy lidu v Praze, reditel doc. MUDr. J. Masek,
DrSc.

(ADIPOSE TISSUE)

(TISSUE METABOLISM)

(EPINEPHRINE)

(LIPID METABOLISM)

FABRY, P.; PETRASEK, R.; KUJALOVA, V.; HOLECKOVA, E.

Adaptation to ~~nutritional~~ changes. Cesk. gastroent. vyz. 16 no.3/4:
246-251 Ap '62.

1. Ustav pro vyzkum vyzivy lidu v Praze, reditel doc. MUDr. J. Masek,
DrSc.

(NUTRITION) (ADAPTATION PHYSIOLOGICAL) (FASTING)

SKALA, I.; KUJALOVA, V.; SEGOVA, E.

Absorption of glucose and D-xylose from different parts of the small intestine of the rat in vitro. Physiol. bohemoslov. 12 no.2:112-117 '63.

1. Institute of Human Nutrition, Prague.

(GLUCOSE)	(XYLOSE)	(INTESTINE , SMALL)
(JEJUNUM)	(ILEUM)	(ABSORPTION)

SKALA, I.; KUJALOVA, V.; SEGOVA, E.; HROMADKOVA, V.; VAVRINKOVA, H.

The effect of the incubation medium on active transport of glucose by the small intestine of the rat in vitro. Physiol. bohemoslov. 12 no.2:118-123 '63.

1. Institute of Human Nutrition, Prague.
(GLUCOSE) (INTESTINE, SMALL) (METABOLISM)
(CARBOHYDRATE METABOLISM)

MOSINGER, B.; KUJALOVA, V.; WENKEOVA, J.

Hypoglycemic effect of sulfonylureas (BZ-55, D-860) in animals with interrupted circulation in the splanchnic area. Cesk. gastroent. vyz. 17 no.1:32-36 Ja '63.

1. Ustav pro vyzkum vyživvy lidu v Praze, reditel prof. dr. J. Masek, DrSc.

(ANTIDIABETICS) (CELIAC ARTERY)
(MESENTERIC ARTERIES) (PORTAL VEIN)
(HYPOGLYCEMIA) (ISCHEMIA) (PANCREAS)

MOSINGER, B.; KUJALOVA, V.

Concomitant inhibition of lipolytic action of adrenaline, glucose utilization and insulin stimulated transport of glucose by cold and phentolamine in rat adipose tissue. *Physiol. Bohemoslov.* 14, no.2:152-159 '65.

1. Laboratory for Metabolic Regulations, Institute of Human Nutrition, Prague.

KUJALOVA, V.; MOSINGER, B.; LOJDA, Z.

The effect of inhibitors of the lipolytic action of adrenaline on adenosintriphosphatase and hexokinase activities in rat adipose tissue. *Physiol. Bohemoslov.* 14 no.2:160-165 '65.

1. Laboratory of Metabolic Regulations, Institute of Human Nutrition, Laboratory of Angiology, Medical Faculty, Charles University, Prague.

E 29480-66

ACC NR: AP6019975

SOURCE CODE: CZ/0079/65/007/003/0259/0261

AUTHOR: Vitek, V. (Prague); Mosinger, B; Kujalova, V.

ORG: Research Institute for Experimental Therapy, Prague; Institute for Human Nutrition, Prague

TITLE: Interaction of ²²antidepressants with the free fatty acid release stimulated by epinephrine [This paper was presented at the 7th Annual Psychopharmacological Meeting, Jesonik, 20-23 January 1965.]

SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 259-261

TOPIC TAGS: pharmacology, biologic metabolism

ABSTRACT: The effect of imipramine, amitriptyline, norimipramine, and nortriptyline, and the Czechoslovak drugs prothiadene, northiadene, and propazepine were studied in vitro. It was confirmed that these drugs strongly interfere with catecholamine metabolism. Orig. art. has: 1 figure. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUEM DATE: none / ORIG REF: 004 / OTH REF: 013

Card 1/1 JS

CZECHOSLOVAKIA

MOSINGER, B., KUJALOVA, V.: Laboratory for Metabolic Regulation,
Nutrition Research Institute (Laborator Metabolickych Regulaci,
Ustav pro Vyzkum Vyzivy Lidu), Prague.

"Influence of Potassium on the Lipomobilization Effect of
Catecholamines in Vitro."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 82-83

Abstract: Presence of K is very important for optimum lipomobiliza-
tion effect of epinephrine and norepinephrine manifested by the release
of free fatty acids and glycerol from fatty tissue. When only
Na, Mg and Ca cations are present there is practically no notice-
able effect of catecholamines. G-strophanthin blocks the effect
of K, Li reduces it, insulin inhibits it. 1 Czech reference.
Submitted at the "16 Days of Physiology" at Kosice, 29 Sep 65.

1/1

- 165 -

~~KUJANOVA-ZEMTKOVA, A.~~

Correction for energy of large nuclei in the Brueckner theory.
Chekhosl fiz zhurnal 13 no.1:1-7 '63.

1. Fyzikalni ustav, Ceskoslovenska akademie ved, Praha.

KUJASZCZYNSKI, A.

Electronic voltage stabilizer. p. 29.

RADIOAMATOR (Publication for amateur radio operators. Title varies: before 1954,
Radio Amator. Monthly) Warszawa, Poland.
Vol. 5, no. 12, Dec. 1955.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1959.

Uncl.

KUJASZEWSKI, A.

Atomic Batterie p. 181

Wiadomosci Elektrotechniczne; (Stowarzyszenie Elektrykow Polskich,
Centralny Zarzad Energetyki, Centralny Zarzad Przemysly Maszyn Elektrycznych i
Centralny zarzad Przemysly Kablowego)
Vol. 15, no. 8, Aug. 1955

Monthly list of East European Accessions (EEAI) LC, Vol/⁹no. 2,
Feb. 1960

Uncl.

MACIEJEWSKA, Mirosława; DZIAŁOSZYNSKI, Lech; KUJAWA, Anna; NAPIERALA,
Henryk

Tyrosine content in the of upgraded Polish sheep of the
Leszczynska and Swiniarka varieties. Roczniki Wyz Szkola Rol
Poznan no.12:207-215 '62.

1. Katedra Fizjologii Zwierząt, Wyższa Szkoła Rolnicza, Poznań.

HOSZOWSKA, Anna; KRETSCHMER, Ryszard; KUJAWA, Helena; GRALA, Ryszard

Therapeutic use of bitter lye from Inowroclaw in diseases of the biliary tract and liver. Pol. tyg. lek. 18 no.28:1009-1013 8 JI '63.

1. Z I Kliniki Chorob Wewnętrznych AM w Poznaniu; kierownik: prof. dr med. S. Kwaśniewski i z Instytutu Balneoklimatycznego w Poznaniu; dyrektor: prof. dr med. J. Jankowiak.
(MINERAL WATERS) (LIVER DISEASES)
(BILIARY TRACT) (DISEASES)

POLAND

HOSZOWSKA, Anna, KRETSCHMER, Ryszard, KUJAWA, Helena, and GRALA, Ryszard, First Clinic of Internal Diseases (I Klinika Chorob Wewnętrznych), AM [Akademia Medyczna, Medical Academy] in Poznan (Director: Prof. Dr. med. S. KWASNIEWSKI) and the Balneoclimatic Institute (Instytut Balneoklimatyczny) in Poznan (Director: Prof. Dr. med. J. JANKOWIAK)

"Therapeutic Use of the Bitter Lye from Inowroclaw in Diseases of the Liver and Biliary Tract."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 28, 8 Jul 63, pp 1009-1013

Abstract: [Authors' English summary] Authors studied the effect of the bitter lye from Inowroclaw on diseases of the liver and biliary tract in 43 persons. Patients were given isoosmotic solution of the bitter lye for 28 days. The treatment caused marked subjective and objective improvement, confirmed by clinical examination and laboratory tests in most of the patients. The authors note the cholopoetic, cholagogic, and laxative effect of the bitter lye. There are 18 references, two (2) Western, the others Polish.
1/1

KUJAWA, S.

Meeting birds during an autumn journey on the North Sea.
Wszelchswiat no. 6:140-141 Je '64.

KRAWCZYNSKI, Jerzy; SZEWCZYKOWSKI, Witold; RYCAJ, Mieczyslaw;
DREWNOWSKA, Irena; PASTUSZANKA, Stanislaw; KUJAWA, Romuald;
IWANOWSKI, Henryk

Essay of determination of certain renal diseases with the aid of
complex laboratory tests. Polski tygod. lek. 11 no.41:1742-1749
8 Oct 56.

1. (Z Centralnego Laboratorium Klinicznego P.S.K. Nr 1 w Lublinie;
kierownik: doc. dr. Jerzy Krawczynski iz II Kliniki Chorob Wewn.
A.M. w Lublinie; kierownik: prof. dr. Alfred Roman Tuskiewicz)
Adres: Lublin, ul. Staszica 16.
(KIDNEY FUNCTION TESTS,
complex technics (Pol))

KRAWCZYNSKI, Jerzy; TUSZKIEWICZ, Alfred; RYCAJ, M.; SZEWCHYKOWSKI, Witold;
DREWNOWSKA, R.; MUJAWA, R.; PASTUSZANKA, S.

An attempt to determine the value of the so-called clearance index
for electrolytes in certain renal diseases. Polskie arch.med. wewn.
28 no.4:468-474 1958.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Lublinie. Kierownik:
prof. dr med. A. Tuszkiewicz i s Central. Laboratorium Klinicznego PSK
Nr 1 Kierownik: doc. dr med. J. Krawczynski. Adres autora: Lublin,
ul. Staszica 16. II Klinika Chorob Wewnętrznych A.M.

(KIDNEY FUNCTION, TESTS

electrolyte clearnace tests in renal dis., value (Pol))

(ELECTROLYTES, metabolism

clearance tests in renal dis., value (Pol))

TUSZKIEWICZ, Alfred; KRAWCZYNSKI, Jerzy; RYCAJ, M.; SZEWCZYKOWSKI, Witold;
DREWNOWSKA, I.; KUJAWA, R.; PASTUSZANKA, S.

An attempt to determine the value of the so-called clearnace test
for uric acid in certain renal diseases. Polskie arch.med. wewn.
28 no.4:574-577 1958..

1. Z II Kliniki Chorob Wewnętrznych A.M. w Lublinie Kierownik: prof.
dr med. a. Tuszkiewicz i z Centr. Laboratorium Klinicznego PSK Nr 1
Kierownik: doc. dr med. J. Krawczynski. Adres autora: Lublin,
ul. Staszica 16, II Klinika Chorob Wewnętrznych A.M.

(KIDNEY FUNCTION TESTS,

uric acid clearnace in renal dis., value (Pol))

(URIC ACID, metab.

clearance test in renal dis., value (Pol))

WOJDYLO, Leon; KUJAWA, Romuald; WOJDYLO, Julia

Clinical and laboratory studies on the new diuretic benzothiazide and its effect in chronic circulatory failure. Polski tygod. lek. 16 no.23:875-881 5 Je '61.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Lublinie; kierownik: prof. dr med. A. R. Tuskiewicz.

(CHLOROTHIAZIDE ther)

(HEART FAILURE, CONGESTIVE ther)

KRAWCZYŃSKI, Jerzy; KUJAWA, Romauld; POKORA, Jan; SZYMANEK, Dominik

A case of diabetes insipidus treated with chlorothiazide and hydrochlorothiazide. Polski tygod. lek. 16 no.43:1658-1663 23 0 '61.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Lublinie; kierownik: prof. dr A.R. Tuszkiewicz i z Centralnego Laboratorium Klinicznego PSK Nr 1 w Lublinie; kierownicy: doc. dr J. Krawczyński.
(DIABETES INSIPIDUS ther) (CHLOROTHIAZIDE ther)

WOJDYLO, Leon; SADLAK, Maria; SLIWINSKA, Jadwiga; KUJAWA, Romuald

The influence of a single drinking of low mineral content water from the "Milośc" Spring in Naleczow on glomerular filtration, tubular water reabsorption, diuresis and on the elimination with urine of some electrolytes and uric acid. Ann. Univ. Lublin sect. D 19:291-298 '64

1. Katedra i II Klinika Chorob Wewnętrznych, Wydział Lekarski AM w Lublinie (Kierownik: prof. dr. med. Alfred R. Tuszkiewicz) i Centralne Laboratorium Kliniczne P.S.K. Nr. 1 w Lublinie (Kierownik: doc. dr. med. Jerzy Krawczyński).

KUJAWA, Stanisław

Oceanographic Museum and Aquarium of the Sea Fisheries Institute
in Gdynia. Przegl zool 8 no.4:373-375 '64.

KUJAWA-PENGZEK, Bibianna; SKORA, Stanislaw .

Adhesives based on epoxy resins and polymethylolamides.
Polimery tworzyw wielk 8 no.6:241-244 Je '63.

1. Instytut Tworzyw Sztucznych, Warszawa.

KUJAWIAK, Hellodor

Industrial experiment in using preformed coke with added limestone in the oupola process. Koks 9 no.5:153-157 S-O '64.

1. Boiler and Radiator Factory, Lodz, and Institute of Chemical Coal Processing, Zabrze.

KUJAWSKA, Aleksandra; WOJCIK, Maria

Results of roentgenologic and electrocardiographic examinations
of the heart in silicosis. Polski tygod. lek. 12 no.21:803,806
20 May 57.

1. Z II Kliniki Chorob Wewnętrznych Śląskiej Akademii Medycznej
i z Działu Chorob Zawodowych Instytutu Medycyny Pracy w Przemysle
Węglowym i Hutniczym w Zabrze; kierownik: prof. dr. med. W. Zahorski.
Adres: Zabrze, 3 Maja 13, II Klin. Chor. Wewn. A. M.

(SILICOSIS, physiology.

ECG & heart x-ray (Pol))

(ELECTROCARDIOGRAPHY, in various diseases,
silicosis (Pol))

(HEART, in various diseases,
silicosis, x-ray (Pol))

KUJAWSKA, Aleksandra; MYSLAK, Zdzislaw; KOSSMANN, Stefan

Diagnostic difficulties in cases of co-existing pneumoconiosis and pulmonary neoplasms. Polski tygod.lek.15 no.22:825-828 30 My '60.

1. Z II Kliniki Chorob Wewnętrznych Sl.A.M. i Działu Klinicznego Instytutu Medycyny Pracy w Przemysle Węglowym i Hutniczym w Zabrze; kierownik: prof. dr med. W Zahorski.
(PNEUMOCONIOSIS compl)
(LUNG NEOPLASMS compl)

RASIEWICZ, Wieslaw; PIETRASZEK, Felicja; KUJAWSKA, Aleksandra

The problem of acute vesicular septicemia. Polski tygod. lek. 16
no.29:1126-1129 17 J1 '61.

1. Z II Kliniki Chorob Wewnętrznych Śląskiej A.M. w Zabrze; kierownik:
prof. dr Witold Zahorski i z Kliniki Dermatologicznej Śląskiej A.M.;
kierownik: prof. dr Tadeusz Chorazak.

(PEMPHIGUS case reports)

POLAND

Aleksandra KUJAWSKA, Stefan KOSSMANN and Benon ZIELEZNIK, Second Clinic of Internal Medicine of the Silesian College of Medicine (II Klinika Chorob Wewnętrznych Śląskiej AM [Akademii Medycznej]); and Clinical Department of the Institute of Occupational Medicine for the Coal and Mining Industry in Zabrze (Dział Kliniczny Instytutu Medycyny Pracy w Przemysle Węglowym i Hutniczym w Zabrzu); Head (kierownik) Prof Dr Witold ZAHORSKI.

"Functional Respiratory Tests as Criterion of Effectiveness of Bronchodilator Drugs."

Warsaw, Polski Tygodnik Lekarski, Vol 17, No 46, 12 Nov 1962; pp 1782-1785.

Abstract [English summary modified]: Spirometric studies in 20 asthmatic men (while free of dyspnea) following 0.3 mg. epinephrine s.c., 240 mg. euphyllin aerosol or i.v.; 5 mg. isoproterenol ("Euspiran") aerosol or 25 mg. hydrocortisone. Epinephrine, isoproterenol and euphyllin were most effective, depending on the criteria. Table, 3 diagrams, 4 Polish and 20 Western references.

1/1

ZAHORSKI, Witold; KUJAWSKA, Aleksandra; MAREK, Kazimierz

Respiratory function test in pulmonary silicosis. Pol. arch. med. wewnet. 32 no.6:605-611 '62.

1. Z II Kliniki Chorob Wewnętrznych Sl. AM i z Działu Klinicznego Instytutu Medycyny Pracy w Przemysle Węglowym i Hutniczym w Zabrzu
Kierownik: prof. dr med. W. Zahorski.
(SILICOSIS diag) (RESPIRATION physiol)

KUJAWSKA, Aleksandra; SMOLARZ, Wojciech

The resaturation time as an oximetric index of impaired respiratory efficiency in emphysema. Pol. arch. med. wewnet. 32 no.8:941-949 '62.

1. Z II Kliniki Chorob Wewnetrznych Sl. AM w Zabrze Kierownik: prof.
dr med. W. Zahorski.
(OXIMETRY) (EMPHYSEMA) (RESPIRATORY FUNCTION TESTS)

KUJAWSKA, Aleksandra; SMOLARZ, Wojciech

Value of the evaluation of resaturation disorders in silicosis
as the index of co-existing emphysema. Pol. arch. med. wewnet.
32 no.8:951-956 '62.

1. Z Działu Klinicznego Instytutu Medycyny Pracy w Przemysle Węglowym
i Hutniczym i II Kliniki Chorob Wewnętrznych Sl. A.M. w Zabrze
Kierownik: prof. dr med. W. Zahorski.
(OXIMETRY) (SILICOSIS) (EMPHYSEMA)
(RESPIRATORY FUNCTION TESTS)

KUJAWSKA, Aleksandra; KOSSMANN, Stefan; ZIELEZNIK, Benon

Respiratory function tests as an index of the effectiveness of
spasmolytic drugs. Pol. tyg. lek. 17 no.46:1782-1785 12 N '62.

1. Z II Kliniki Chorob Wewnętrznych Śląskiej AM i Działu Klinicznego
Medycyny Pracy w Przemysle Węglowym i Hutniczym w Zabrze; kierownik:
prof. dr med. Witold Zahorski.
(RESPIRATORY FUNCTION TESTS) (MUSCLE RELAXANTS)

LANGAUER-LEWOWICKA, Henryka; PETKLENZ, Tadeusz; KUJAWSKA, Aleksandra

Polyneural lesion with facial paralysis in metallic mercury poisoning. Pol. tyg. lek. 19 no.25:962-964 15 Je'64

1. Z Działu Klinicznego Instytutu Medycyny Pracy w Przemysle Węglowym i Hutniczym w Zabrze (kierownik: prof. dr. W. Zahorski) i z Kliniki Neurologicznej Szkoły Akademii Medycznej w Zabrze (kierownik: prof. dr. W. Chlopicki).

SMOLARZ, Wojciech; KUJAWSKA, Aleksandra

Oxymetric estimation of the lung-ear time as a method of studying disturbances of pulmonary circulation. Pol. arch. med. wewnet. 35 no.2:217-220 '65

1. Z Kliniki Chorob Wewnętrznych i Zawodowych Śląskiej Akademii Medycznej w Zabrze. (Kierownik: prof. dr. med. W. Zahorski).

ZAHORSKI, Witold; KUJAWSKA, Aleksandra; MAREK, Kazimierz;
ZAWADZKA, Elzbieta; CZYZEWSKA, Krystyna

Relation of the development of pneumoconiosis in welders
to the environment. Med. pracy 16 no.3:181-186 '65.

1. Z Działu Klinicznego Instytutu Medycyny Pracy w Przemysle
Węglowym i Hutniczym w Zabrzu (Kierownik: prof. dr. W. Zahorski)
i z Pracowni Gazowej (Kierownik: mgr. E. Zawadzka).

KUJAWSKA, Aleksandra; KOSSMANN, Stefania

Serum seromucoid level in silicosis and silicotuberculosis.
Pol. arch. med. wewnet. 35 no.8:1237-1240 '65.

1. Z Działu Klinicznego Instytutu Medycyny Pracy w Przemysle
Węglowym i Hutniczym w Zabrze (Kierownik: prof. dr. med.
W. Zahorski).

KUJAWSKA, Anna, mgr inz.

Meter with the elastic element of a manometric flowmeter.
Pomiary 8 no.9:448 S '62.

EXCERPTA MEDICA Sec 16 Vol 7/8 Cancer August 59

3511. **Evaluation of the danger of metastases in patients with cancer of the skin** Ocena zagrożenia przerzutami w przypadkach raka skóry. KUJAWSKA J. Inst. Onkol. Oddz., Kraków *Neurology* 1958, 8:3-4 (283-290) Graphs 1 Tables 5. Out of 472 cases of squamous cell carcinoma of the skin (penis, scrotum, vulva and anal region excluded) 33 (6.9%) had metastases when first examined at the Oncological Institute of Cracow. Metastases were especially found in (1) tumours of the extremities, of the concha of the ear, and of the lateral parts of the face; (2) large primary tumours; (3) long-standing tumours (1-3 yr.). In 309 cases which were treated and could be followed up and in which no metastases were found at the beginning of treatment metastases in the lymph nodes were later found in 15 cases (4.8%). Metastases as a rule appeared during the first 2 yr. after treatment, and were more frequent in the case of a non-healed primary focus. Prophylactic lymph node dissection is not recommended.

POLAND

KOŁODZIEJSKA, Hanna, KUJAWSKA, Janina, CZEPKO, Anna, and STRZESZYŃSKI, Janusz: Oncology Institute (Instytut Onkologii), Krakow Division (Oddział w Krakowie) (Director: Doct, Dr. med. Hanna KOŁODZIEJSKA)

"Delayed Diagnosis of Bronchial Cancer,"

Warsaw, Polski Tygodnik Lekarski, Vol 13, No 25, 17 Jun 63, pp 894-896

Abstract: [Authors' English summary modified] Analytical observations on 908 cases of bronchial cancer examined in 1951-1960. In 81% of cases diagnosis was delayed due to physicians' errors; 85.5% not admitted because of advanced stage, refusal of patient, or shortage of beds. Only 13% could receive palliative treatment, and only 1.5% surgical help. Earlier diagnosis can be achieved by better organization of outpatient clinics, hospitals, and TB sanatoria, improving chances for surgical treatment. Percentage of cases now treated by surgery is 20% at Institute of Tuberculosis (Instytut Gruzlicy), 7% at Institute of Oncology in Warsaw, and 1.5% in Krakow. There are 19 references, 6 in Polish, 13 in English.

1/1

KOŁODZIEJSKA, Hanna; KUJAWSKA, Janina; SKOLYSZEWSKI, Jan; SZYMOCZYK, Wlslawa

Radiation therapy of cervical lymph node metastases. ~~Not~~ ^{otwory}
14 no.1:13-18 Ja-Mr '64.

1. Z Instytutu Onkologii w Krakowie (Dyrektor: prof. dr med.
H. Kołodziejaska).

KUJAWSKA, Janina; CZEPKO, Anna

Therapeutic results in malignant tumors of the testis.
Nowotwory 14, no.1:79-83 Ja-Mr '64.

1. Z Instytutu Onkologii w Krakowie (Dyrektor: prof. dr med.
H. Kolodziejaska).

KUJAWSKA, Jolana

Irradiation of inoperable thyroid cancer. Nowotwory 14 no.3:
265-270 Ag-S '64

l. Z Instytutu Onkologii w Krakowie (Dyrektor: prof. dr. med.
H. Kolodziejska).

KUJAWSKA, Janina; SKYMCZYK, Wlislawa; SKOLYSZEMSKI, Jan; KOPERA, Zygmunt

A technic for rotation roentgenotherapy of esophageal cancer
in the Krakow Institute of Oncology. Nowotwory 14 no.3:299-303
Ag-S '64

1. Z Instytutu Onkologii w Krakowie (Dyrektor: prof. dr. med.
H. Kolodziejaska).

KOLODZIEJSKA, Hanna; KUJAWSKA, Janina; SKOLYSZEWSKI, Jan

Failures in roentgenotherapy of laryngeal cancer. Nowotwory
14 no.4:349-352 Q-D '64

1. Z Instytutu Onkologii w Krakowie (Dyrektor: prof. dr. med.
H. Kolodziejaska).

KOŁODZIEJSKA, Hanna; SKOŁYSZIEWSKI, Jan; KUJAWSKA, Janina

Results of the irradiation of laryngeal cancer in the Cracow
Institute of Oncology. Otolaryng. Pol. 18 no.4:455-458 '64

1. Z Instytutu Onkologii, Oddział w Krakowie (Dyrektor: prof.
dr. med. H. Kołodziejska).

CZUCHAJOWSKI, L.; LASON, M.; SZYMANOWSKI, W.; KUJAWSKI, A.; OLSZEWSKA, I.
GORALCZYK, A.

Infrared absorption spectra of Polish coals by pressed powder method.
Bul Ac Pol mat 9 no.2:107-111 '61.

1. Department of General Physics, "A", Technical University, Warsaw;
Department of Mining Chemistry, School of Mining and Metallurgy,
Cracow, and Department of Mechanics of Rock Masses, Polish Academy of
Sciences. Presented by W. Rubinowicz.

(Coal) (Spectrum, Infra-red)

KUJAWSKI, A.

Reciprocity theorems and Babinet's principle in Kirchhoff's theory of the diffraction of electromagnetic waves. Acta physica Pol 21 no.6:597-607 Je '62.

1. Institute of Physics, Polish Academy of Sciences, and Department of Physics, Technical University, Warsaw.

KUJAWSKI, A.

On the Kirchhoff-Young diffraction theory of electromagnetic waves. Bul Ac Pol mat. 11 no. 2: 67-72 '63.

1. Institute of Physics, Polish Academy of Sciences, Warsaw.
Presented by W. Rubinowicz.

ACCESSION NR: AP4017205

P/0045/64/025/001/0007/0019

AUTHOR: Kujawski, Adam

TITLE: On Kirchhoff's solutions of the electromagnetic diffraction problem

SOURCE: Acta physica polonica, v. 25, no. 1, 1964, 7-19

TOPIC TAGS: Kirchhoff solution, electromagnetic diffraction, wave motion, electric dipole, Lorentz theorem, reciprocity, Huygens electromagnetic principle, Laporte-Meixner solution, Kottler solution

ABSTRACT: In Kirchhoff's theory of diffraction, both scalar and electromagnetic, the splitting of his wave motion into a geometric-optical wave and a boundary-diffraction wave is possible according to Young's interpretation of diffraction phenomena. The Kirchhoff-Young solutions in the electromagnetic theory for an incident wave radiated by an electric dipole were given by Kottler and later, in a different way, by Laporte and Meixner. The paper shows that the modified Lorentz theorem and, by implication, the reciprocity theorems, lead to the Huygens electromagnetic principle expressed in the Lorentz-Larmor formulas

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ACCESSION NR: AP4017205

derived from the unmodified theorem. It proves that the two Laport-Meixner solutions conceived by their authors as quite different are equivalent not only to one another, but also to Kottler's solutions. The Kirchhoff electromagnetic solutions may be interpreted as the exact solutions of the saltus problem, but not so a certain class of Laporte-Meixner solutions.

"The author's thanks are due to Professor W. Rubinowicz for suggesting the problem and for his many discussions and critical remarks."

Orig. art. has: 54 equations.

ASSOCIATION: Instytut Fizyki PAN, Warsaw (Institute of Physics, Polish Academy of Sciences)

SUBMITTED: 15Jun63

DATE ACQ: 18Mar64

ENCL: 00

SUB CODE: PH, MM

NO REF SOV: 000

OTHER: 016

Card 2/2

ACC NR: AP7000808

SOURCE CODE: PO/002/66/000/005/0138/0145

AUTHOR: Kujawski, Edmund (Warsaw)

ORG: None

TITLE: Czechoslovakian Academy of Sciences: tasks, organization, activities

SOURCE: Nauka polska, no. 5, 1966, 138-145

TOPIC TAGS: scientific organization, scientific policy, SCIENTIFIC RESEARCH

ABSTRACT: In addition to a brief description of the historical background and the basic concept of the Czechoslovakian Academy of Sciences, the latter being similar to the Science Academies of other Socialist countries, the review dwells in particular upon the new organization and areas of activities of this scientific body. The Academy consists of 209 native members and 29 foreign members. Best represented are mathematical, physical and chemical sciences (60 members), followed by humanistic sciences (56 members). The central governing organ is the presidium, elected every 4 years by the general assembly. Its members must have government approval. The newest development in the organization of the Academy is the substitution of old, large divisions of related disciplines by 23 scientific colleges, each of which encompasses only small specialized fields of science. Each college consists of 15 to 18 members, including representatives of universities, technological institutes, and industries, in addition to the members of the Academy.

Card 1/2

ACC NR: AP7000808

Among the most important functions of the Academy is collaboration with institutions of higher learning and coordination of research activities. In this area one of its specific achievements was an initiation of an exchange of professors between various universities as well as members of the Academy. Orig. art. has: 1 table.

SUB CODE: 05/ SUBM DATE: 00 May 66

Card 2/2

KUJAWSKI, Edmund

Importance of chemistry and chemical research in Poland; 15th
Session of the General Meeting of the Polish Academy of Sciences,
December 14, 1962. Nauka polska 11 no.2:158-169 Mr-Ap '63.

1. Biuro Prezydialne, Polska Akademia Nauk, Warszawa.

KUJAWSKI, Edmund

Present state of Polish sciences; in connection with the 13th
General Session of the Polish Academy of Sciences of December 13,
1963. Nauka polska 12 no.1:165-173 Ja-F '64.

1. Polish Academy of Sciences, Warsaw.

KUJAWSKI, Edmund

Some problems of the Polish state plan of scientific research for
1961-1965. Review Pol Academy 5 no.3/4:19-42 J1-D '60.

(Poland—Science) (Poland—Research)

KUJAWSKI, Edmund

From the debates on the diffusion of the sciences and the
role of scientific societies. Nauka Polska 10 no.1:139-149
Ja-F '62.

1. Polska Akademia Nauk, Biuro Prezydialne, Warszawa.

KUJAWSKI, Edmund

World tendencies in the field of scientific research; with reference to the report of the United Nations Organization and the United Nations Educational Scientific and Cultural Organization. Nauka Polska 10 no.1:173-179 Ja-F '62.

KUJAWSKI, Edmund

Integration of the social sciences; Session of the Polish Association
of Political Sciences, Warsaw, March 30, 1962. Nauka polska 10 no.4:
126-136 '62.

KUJAWSKI, Edmund

Demographical changes in Poland; 16th Session of the General
Meeting of the Polish Academy of Sciences, May 17, 1963.
Nauka polska 11 no.4:145-153 J1-Ag '63.

1. Polska Akademia Nauk, Biuro Prezydialne, Warszawa.

KUJAWSKI, Edmund

Activities of the Polish Academy of Sciences in 1963. Nauka
polska 12 no.4:193-198 J1-Ag '64.

1. Polish Academy of Sciences, Warsaw.

BIA KUJAWSKI, J. /

1102

658 562 : 621

Kujawski J. **Production Rejects in Engineering Works.**

"Braki produkcyjne w zakładach mechanicznych" *Ekonomika i Organizacja Pracy* No. 3, 1931, pp. 131-136

The author, while emphasizing the necessity of revealing, controlling and combating rejects, gives a definition of the latter and deals with the methods of recording, the principles of valuation of and reporting on rejects, the tolerances and computation of indices. The article also contains specimens of defective work charts

L 34448-66 RO
ACC NR: AP0026206 (A)' SOURCE CODE: PO/0071/65/000/009/0513/0517

AUTHOR: Kossakowski, Stefan--Kossakovski, S. (Doctor; Pulawy); Kujawski, Janusz 33
(Pulawy) 6

ORG: Veterinary Service Research Center (Osrodek Badawczy Sluzby Weterynaryjnej) 6

TITLE: Poisoning of domestic animals with organic phosphate pesticides

SOURCE: Medycyna weterynaryjna, no. 9, 1965, 513-517

TOPIC TAGS: toxicology, pesticide, organic phosphorus compound, commercial animal

ABSTRACT: Data on the 2 organic phosphate pesticide products manufactured in Poland (Asofos and Foschlor) thorough analysis of Polish and foreign reports on domestic animal poisonings with these and related compounds; tabulation of enzymatic and toxic effects; symptoms, pathologic changes, treatment. Orig. art. has: 2 tables. [JPRS: 33,500]

SUB CODE: 06 / SUBM DATE: none

Card 1/1

POLAND

KOSSAKOWSKI, Stefan; and KUJAWSKI, Janusz; Experimental Center of the Veterinary Service (Osrodek Badawczy Sluzby Weterynaryjnej).

"Experimental Hog Poisoning with Isopropyl Ester of Methylfluorophosphoric Acid."

Lublin, Medycyna Weterynaryjna, Vol 21, No 11, Nov 65; pp 661-665.

Abstract [English summary modified]: Study on 12 hogs weighing 27.7 to 43 Kg., and given percutaneously 27.7 to 62.3 mg. of this organic phosphate compound (0.95 to 1.9 mg./Kg.): this was fatal to 6 of the animals but the one animal given 1.9 mg./Kg. recovered, whereas one given only 1.1 mg./Kg. succumbed within 18 hours. Data by symptoms, oxime treatment, diagnosis, prognosis, gross and microscopic pathology. Table, 2 photographs.

1/1

KUJAWSKI, M.

Improved method for preparation of limit dextrin substrate
by using barley malt. Acta Biochim. Pol. 11 no.1:3-10 '64.

1. Department of Agricultural Technology, College of Agriculture,
and Department of Plant Physiology, Polish Academy of Sciences,
Krakow.

~~RUTAWSKI, MACIEJ~~

Poland /Chemical Technology, Chemical Products
and Their Application

I-31

Fermentation industry

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32860

Author : Nowotny Franciszek, Kujawski Maciej

Title : Development of a Method for the Production of
"Hybrid Malt".

Orig Pub: Przem. spozywczy, 1955, 9, No 7, 304

Abstract: A brief presentation of the results of experiments on breaking up of starch by "fungus malt" obtained by cultivation of specific mold fungi. A species of mold has been segregated which ensures maximum yields of enzyme using agricultural waste as nutrient medium. Optimal duration of the process has been determined. In comparison

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Poland /Chemical Technology. Chemical Products
and Their Application

I-31

Fermentation industry

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32860

with barley malt the amylolytic capacity of
the preparation obtained is of 86.5%. Degree
of saccharification (in g maltose / 1 g malt)
of starch is lower during the first hours, and
at the end of the process it is higher than that
of malt.

Card 2/2

KUJAWSKI, M.; PILLER, K.

Studies on the production of fungal amylases. II. Morphology of 4 strains of *Aspergillus oryzae* and the effect of the time of growth on their amylolytic activity. Acta microb. polon 9 no.2: 205-214 '60.

1. Z Katedry Technologii Rolnej Wyzszej Szkoły Rolniczej w Krakowie
i z Zakładu Fizjologii Roslin PAN w Krakowie
(*ASPERGILLUS*)
(*AMYLASES*)

KUJAWSKI, W.

Polish Technical Abst.
No. 1. 1954
Chemistry and Chemical Technology

663.14 : 634.937 : 664.23
Karczewska H., Kujawski W. Production of Yeast on Potato Pulp.
„Produkcja drożdży na wysłarce ziemniaczanej”. (Prace G. Inst.
Przem. Roln. i Spoż. No. 1), Warszawa, 1952, PWT, 143 pp., 2 figs, 15 tabs.
Hydrolysis of potato pulp with sulphuric acid, under pressure and
without pressure, was studied by the authors. The following parameters
for potato pulp hydrolysis were determined: 1) the optimum water
content in the pulp (hydromodulus); 2) the lowest consumption of sul-
phuric acid; 3) the shortest time of hydrolysis. Studies were carried out
on the production of yeast on the non filtered products of hydrolysis, by
utilising the cellulose of fodder albumin and on filtered products of
hydrolysis. A method is given of obtaining fodder and bakery yeast
on the filtered products of hydrolysis. Hydrolysis in open vessels re-
quires dilution of the potato pulp to about 7% of the dry mass content.
The time of hydrolysis, at a temperature of about 100°C with 2%
sulphuric acid, is about 4—4.5 hours; with 1.5% sulphuric acid, about
6—7 hours; and with 1% sulphuric acid, about 9 hours. Saccharization
during this period amounts to about 90%. With autoclave hydrolysis,
the dry mass content can reach 10—11%. At a pressure of 2.5 atm.,
a temperature of about 140°C and with 0.4—0.5% acid, the time of
hydrolysis is about 1.5 hours, saccharization about 90%; that is to say
that 100 kg of starch will, after hydrolysis give about 100 kg of re-
ducing agents, determined as glucose. The available capacity of the
converter reaches 75% of the total capacity. Pressing of the products
of hydrolysis on the filter presses gives a clear filtrate. About 16—18%
of the reducing substances of the hydrolysing products remain in the re-
sidue, a loss which could, however, be decreased to about 5% by wash-
ing the residue in the press with hot water. After hydrolysis and pres-
sing, about 93 kg of reducing substances are obtained from 100 kg of

starch. The residue with a dry mass content of 20% amounts to about 23% of the potato pulp used for hydrolysis with the same moisture content. Fermentation occurs just as well on the filtered hydrolysis products as on the unfiltered ones. In order to obtain a higher yield the yeast must become accustomed to the medium. In *Tecula* yeast, the yield of the dry mass of yeast sometimes varies from 25% to 60% in relation to the amount of reducing substances added (the average yield of *Niechcice* yeast amounts to about 59% for a 6 months period). Dried bakery and fodder yeast produced on potato pulp hydrolysis products conform with the customary standards. Addition of fruit water from the production of starch effected a marked increase in yields of yeast during February and March, but later tests did not prove this result.

SZELEZYNSKI, Kazimierz; KUJAWSKI, Zygmunt

Results of bronchoscopy in pulmonary tuberculosis in adolescents.
Gruzlica 27 no.8:931-935 S '59.

1. Z Panstwowego Sanatorium Przeciwgruzliczego dla Mlodziezy w
Diersaznie. Dyrektor: dr W. Dworak. Z Kliniki Gruzlicy Pluc
A.M. w Gdansk. Kierownik: prof.dr T. Kielanowski.
(TUBERCULOSIS PULMONARY in adolescence)
(BRONCHOSCOPY)

KUJSZCZYK, Wladyslaw (Pulawy - Lublin)

Attempts at producing antierysipelas serum as a by product in swine
fattening. Rocz nauk roln wet 70 no.1/4:258 '60.

(EEAI 10:9)

(Serum) (Erysipelas) (Swine)

KUJUMGIEV, I.

Possibilities of serodiagnosis of lymphogranulomatosis (Hodgkin's disease) with Bedsonia antigens. Dokl. bolg. akad. nauk 15 no.6: 677-680 '62.

1. Note presentee par S. Angelov, membre de l'Academie.

(HODGKIN'S DISEASE) (MIYAGAWANELLA)

(ANTIGEN-ANTIBODY REACTIONS) (COMPLEMENT FIXATION TEST)

KUJUMGIEV, I.

On the conditions of cluster-type agglutination in leptospira
celledoni strain Celledoni. Izv. Bolg. akad. nauk 17 no.9:
853-856 '64.

1. Note presentee par A. Tschkov.

L 4372-66

ACC NR: AF5028451

SOURCE CODE: BU/0011/65/018/001/0079/0081

AUTHOR: Kujumgiev, I.

ORG: Institute of Microbiology, Bulgarian Academy of Sciences (Institut de Microbiologie, Academie bulgare des Sciences)

TITLE: Modification of the Mycoplasma agalactiae caused by capsaicin

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 1, 1965, 79-81

TOPIC TAGS: fungus, animal parasite, bacteriology, morphology, plant morphology

ABSTRACT: [French article] Back in 1961 the author studied colonies of Mycoplasma agalactiae (Compt. rend. Acad. bulg. Sci., 14, 1961, 731). During the same year he investigated the influence of capsaicin on leptospirae and found that a capsaicin concentration of 0.333-0.125% within a Korthof nutrient medium caused a complete destruction of the leptospirae. However, a 0.025% concentration generated, on the contrary, a stimulating mutagenic activity with respect to the growth and antigenic activity of the leptospirae. This prompted the present study of the capsaicin effect on mycoplasmas. The M. agalactiae colonies appeared fully developed in less than 48 hours, and the time for the appearance of cultures seemed to be affected exclusively by the

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L 4372-66

ACC NR: AP5028431

amount of capsaicin used. In all cases the appearance of the new colonies was quite different from that of the control sample. Morphologic changes in solid media were paralleled by decreases in virulence. The work was presented by A. Tochkov, 16 Sep 64. Orig. art. has: 1 figure. [JPRS]

SUB CODE: LS / SUBM DATE: 16Sep64 / ORIG REF: 003 / OTH REF: 002

Card 2/2

KUJUNDZIC, B.; JOVANOVIC, L.

Methods of auscultation of concrete dams. I. (To be contd.) p. 180.
ELECTROPRIVREDA, Vol. 7, no. 4, July/Aug. 1954, Beograd, Yugoslavia)

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, no. 1
Jan. 1955, Uncl.

KUJUNDZIC, B.

Contribution to experimental determination of the modulus
of elasticity of rock in situ. p. 1219.
Vol. 9, No. 8, 1954. TEHNIKA. Beograd, Yugoslavia.

SOURCE: East European Accessions List (EEAL) Library
of Congress, Vol. 5, No. 8, August, 1956.

KUJUNDZIC, B.: MILOVONOVIC, D.

Effect of earthquakes on dams. p.3. Belgrad. (Vazuhoplovni institut
"Inzenjer Jaroslav Gerni." SAOPSTENJA. TRANSACTIONS. Beograd. Vol.
4, now. 58-65, 75-76; Feb.-July, Nov. 1956.

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol.
5, no. 12, December 1956.

developed and will be thoroughly described and illustrated. The system will be

Reference is made to public domain information available to the public.

KUJUNDZIC, B.

TECHNOLOGY

Periodical: SAOPSTENJA. TRANSACTIONS. No. 6, 1957.

KUJUNDZIC, B. Principles of photoelastic research in a plane and their application.
p. 11.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

KUJUNDZIC, B.

TECHNOLOGY

Periodical: SAOPSTENJA. TRANSACTIONS. N_o. 6, 1957.

KUJUNDZIC, B.; JOVANOVIC, L. Testing the Number 2 penstock of the Jablanica Hydroelectric-Power Station. p. 37.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

14(10) 14(6)
28(3)

YUG/3-59-1-3/26

AUTHOR: Kujundžić, Branislav, Engineer, Chief of the Hydraulic Structures Department

TITLE: Testing and Research in the Field of Hydraulic Structures (Ispitivanja i istraživanja u oblasti hidro-tehničkih konstrukcija)

PERIODICAL: Elektroprivreda, 1959, Nr 1, pp 7 - 13 (YUG)

ABSTRACT: The activity of this department includes field- and model-testing and observations of hydraulic structures, geotechnical research - especially testing of rocks, and studies of some special experimental hydraulic structures, during the period 1950 - 1958. Field observation and inspection of dams included Jablanica arch-gravity dam, Jajce II gravity dam and Lipkovo arch dam near Kumanovo. Preparations are being made for observation of the Idbar experimental arch dam, now under construction. Studies on the water permeability of tunnels under pres-

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Testing and Research in the Field of Hydraulic Structures

sure have been carried out in the conduit tunnels of the Mavrovo Hydropower Complex, and in the conduit tunnel of the Lipkovo irrigation system near Kumanovo. These tunnels were examined by partitioning them into sections with wooden shields. One at a time the sections are filled with water and compressed to a certain pressure. The amount of water which must be added to maintain pressure over a fixed period indicates the water permeability of the section. This method is also used successfully in France. Stresses in tunnel-lining are studied by measuring deformations. The stresses in the concrete-encased penstocks at the Jablanica and Jajce I hydropower plants and in the unencased penstock at the Vrutok hydropower plant were also examined by measuring deformations. Study of the mechanical characteristic of rocks in situ is also undertaken by this department. The method of measuring the modulus of elasticity by inserting a sheet-

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Testing and Research in the Field of Hydraulic Structures

metal drum encased in concrete into a fissure in the rock to be tested was developed in this department and successfully used at the Vinodol, Peruća, Split, Senj, Bajina Bašta, Mavrovo, Tikveš, Globočica, Raven, Rama, Jajce I, Zaton, Bistrica, Buk Bijela, Tara-Morača and Komarnica power plants. A similar method, using two sheet-metal drums propped apart by timber, was applied at the site of the Buk Bijela dam. In the conduit tunnels of the Jablanica and Gojak hydropower plants the modulus of rock elasticity was determined by the test chamber method, i.e. by measuring deformations in a section of the tunnel, partitioned off and filled with water under a given pressure. In the conduit tunnel of the Vrutok hydropower plant the modulus of rock elasticity was measured by a radial press. The department also developed and produced a sounding dilatometer, consisting of a hollow rubber cylinder filled with water, which can be lowered into a prospecting drill hole and pumped to a certain pressure.

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Testing and Research in the Field of Hydraulic Structures

The deformation of the rock is measured by a device in the cylinder supplied with remote data indicator. The first measurements with the sounding dilatometer were made at the site of Bajina Bašta dam. Shearing tests in situ have been carried out at the site of the Buk Bijela, Bajina Bašta and Tara-Morača dams, at the site of penstock anchor-blocks at the Perućica hydropower plant and in the conduit tunnel of the Raven hydropower plant. Similar tests have been carried out at the site of Bajina Bašta, Buk Bijela, Modrac and Rastovača dams, but for testing a concrete-rock joint. The laboratory research included examination of a model of an elasto-static arch dam, analysis of Idbat and Čitluk dams (a model of the Neretvica dam is in preparation), and photoelastic studies of some structures. As experimental structures this department used 4 debris arch dams in the catchment area of the Jablanica storage lake, i.e.: Idbar, Bijela, Neretvica and

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YUG/3-59-1-3/26

Testing and Research in the Field of Hydraulic Structures

Seonica dams. The Idbar dam which will be soon completed is 38 m high, 99 m long at the crest and has an average thickness of 1.77 m. Electroacoustic tensiometers, for stress observations under various loads, are built in. The department is also working on other problems: the effect of earthquakes on dams, the buckling of thin arches, water-tunnel lining in the form of square segments, bearing capacity of inclined piles and a group of piles, anisotropy of rocks, model studies of structures by using brittle lacquers, application of geology in geomechanical research, prestressed concrete irrigation pipes, etc. Fourteen engineers and a large number of technicians and laboratory workers are employed in this department. There are 9 photos and 21 Yugoslavian references.

ASSOCIATION: Hidrotehnički Institut "Inž. Jaroslav Černi" ("Inž. Jaroslav Černi" Hydro-Engineering Institute)

Card 5/5